



## Solutions Benefits

INCREASED EFFICIENCY

SUPERIOR RELIABILITY

EMISSIONS CONTROL

GRID STABILITY



FAST-TRACK INSTALLATION

SMALL FOOTPRINT

FUEL FLEXIBILITY

## OUR TURNKEY SOLUTION

DESIGN

ENGINEERING

LOGISTICS

PROCUREMENT

CONSTRUCTION

COMMISSIONING

OPERATION

MAINTENANCE

FUEL MANAGEMENT

SECURITY

# Efficiency Enhancement

All across the world, as power infrastructure ages, power plants are rapidly becoming inefficient and non-compliant with emission regulations. Relying on outdated and unreliable assets increases the risk of high overall costs and environmental issues, and is no longer an alternative for governments, utilities and private industries that are looking for a cost-effective and reliable power solution.

APR Energy enables customers to upgrade their aging power generation infrastructure with newer and more efficient technology. Our goal is to provide a specialized power solution that will optimize your operations, improve reliability, secure significant fuel cost savings and minimize emission levels.

Our approach utilizes the latest gas turbine technology that has a proven track record of success serving a wide range of applications in both developed and developing markets. We can provide immediate access to energy while more permanent power is repaired, upgraded or constructed so our customers can take advantage of the benefits of reliable power and cost savings right away.

To provide a superior experience, APR Energy combines advanced technology with a full turnkey concept where we provide the design, installation, maintenance and operation of our power plants. With comprehensive, flexible and customized solutions, we can develop each project to suit our customer's needs.

## U.S. Virgin Islands Turbine 1 Replacement

### PHASE 1 PLANNING INSTALLATION



### PHASE 2 REMOVAL OF AGED EQUIPMENT



### PHASE 3 GAS TURBINE MOVES IN POSITION



### FINAL INSTALLATION COMPLETED



## Turbine 2 Replacement

### BEFORE



### AFTER



## Case studies

### U.S. Virgin Islands

Power generation in the U.S. Virgin Islands has been challenging due to aging infrastructure that has resulted in reduced efficiency, increasing emissions levels and more frequent maintenance. APR Energy replaced outdated infrastructure and delivered superior fuel-efficiency and emissions reduction technology, helping the Virgin Islands Water and Power Authority (WAPA) enhance performance, improve reliability and receive incremental savings through maintenance avoidance. The turbine's small footprint also enabled APR Energy to install and integrate it directly into WAPA's existing power plant.

### Libya

In 2013, concerns arose that Libya's power generation and transmission system would be unable to meet the acute and growing demand for electricity during the hot summer. APR Energy proposed fast-track solutions that met General Electricity Company of Libya's (GECOL) key requirements – train and utilize local customer technical resources, and environmentally sustainable and efficient turbine generation. Our ability to deliver state-of-the-art mobile gas turbines on a fast-track basis resulted in a 250MW contract over four sites in key areas of Libya.



Al Furnag, Libya

### SOLUTIONS BENEFITS:

#### Increased efficiency

Immediate realization of fuel-cost savings enabled through industry-leading, high-efficiency technology.

#### Superior reliability

Minimal maintenance and reduced downtime. Our projects are supported by global engineering, field service and operations teams that provide remote monitoring and troubleshooting support to ensure carefree turnkey power assurance.

#### Low emissions technology

Mobile gas turbines can produce up to 90 percent less nitrogen oxide than a comparable high-speed diesel engine plant, and generate about 20 percent less noise.

#### Grid stability and security

Frequency and voltage support capabilities, ability to black start, grid reserve capacity and fast frequency response. Once in operation, the turbines can reach full power in less than ten minutes.

### ADDED BENEFITS

#### Fast-track installation

Our solutions are designed for rapid installation and commissioning anywhere in the world in just weeks, not years.

#### Small footprint

A modular plant using our compact, power-dense turbines requires approximately one-third of the space needed for an equivalent-output diesel reciprocating engine plant, making our turbine solution a perfect fit for customers with space constraints.

#### Fuel flexibility

Our technology has dual-fuel capabilities and allows customers to seamlessly switch between fuels depending upon cost and availability, which can generate additional savings.

📞 +1 904 223 2278

✉ e-mail: [info@aprenergy.com](mailto:info@aprenergy.com)

[www.aprenergy.com](http://www.aprenergy.com)

Twitter: @aprenergy | LinkedIn: [linkedin.com/company/apr-energy](https://www.linkedin.com/company/apr-energy) | Facebook: [facebook.com/aprenergy](https://www.facebook.com/aprenergy) | YouTube: [youtube.com/aprenergy](https://www.youtube.com/aprenergy)